

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **08256344 A**

(43) Date of publication of application: 01.10.96

(51) Int. Cl.

H04N 9/07**H04N 9/68**(21) Application number: **07084477**(71) Applicant: **OLYMPUS OPTICAL CO LTD**(22) Date of filing: **17.03.95**(72) Inventor: **FUKUDA EIJU**(54) **VIDEO SIGNAL PROCESSOR**

(57) Abstract:

PURPOSE: To extend the dynamic range by detecting the state of the level of a color system signal with a high level and generating control information used to control unifiedly the gain of color system signals for plural systems in response to detection information to control the gain.

CONSTITUTION: Input color signals R, G, B subjected to gamma processing by a gamma processing circuit 4 are given to an OR circuit 9, and the color signal with a highest level is outputted. Then a control signal generating circuit 10 outputs the control signal in response to the color signal outputted from the circuit 9 with a highest level. When any of the color signals R, G, B reaches a prescribed level or over, the gain of the three color signals R, G, B is controlled simultaneously to be the same gain by each of gain control amplifiers 11, 12, 13. Since the ratio of the three color signals R, G, B is unchanged, the signals are compressed without losing color reproducibility and the dynamic range is extended.

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